



Activating Data for AI:

Unifying Data Without Rebuilding Infrastructure

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RMACC
Boise, May 13

Data underpins every AI solution...

... but it doesn't live in one place

73%
of Enterprise data
is siloed



**Today's
Enterprise
Needs...**

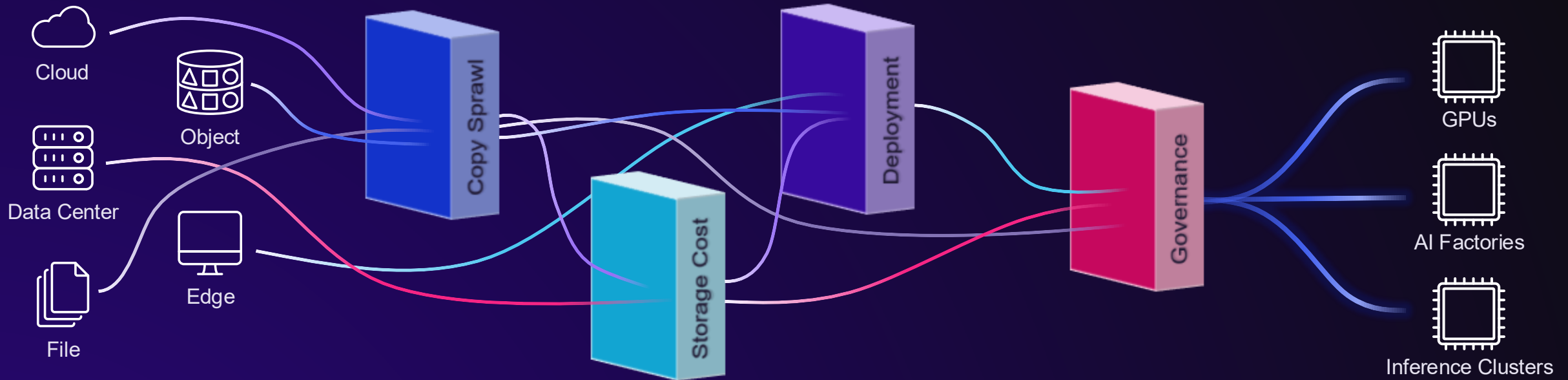
Visibility into Data

Unified Access

Automated Pipelines

AI Exposes Limits of Centralized Data

AI is not just compute-constrained. It is data-constrained.



AI Changes How Data Must be Used

- Data stays where it is
- Compute moves to where it's available
- Workloads are no longer fixed

What Breaks At Scale

- Copy sprawl
- Idle GPUs
- Power & cost waste
- Deployment delays

The AI FOMO Gap

- 57% of IT leaders say they were pushed to deploy before they were ready.
- Only 20% of AI investments are currently delivering ROI
- 14% of organizations are confident in their data governance

Enterprises Need an Outcome for AI Success

Not just a bunch of parts and tools to assemble themselves

Where should I host it?

What tools do I use?

And how do I make sure it is efficient and secure?

FOMO

(Fear of Missing Out)

- Board, Competition, and BU Pressure
- Those who don't adopt will lose the market
- "Everyone's doing it" pressure cycle

FOMU

(Fear of Messing up)

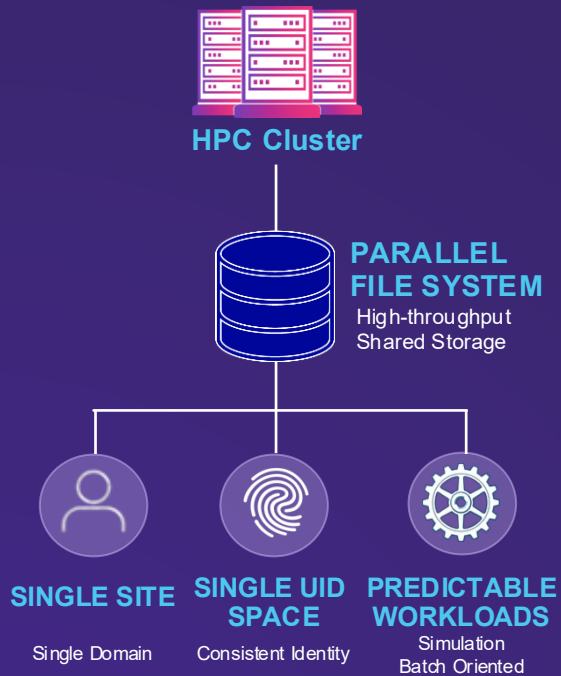
- Investing in the wrong technology
- Large capital outlay before return
- Will it deliver an ROI?
- Security and risk exposure

The Reality Has Changed

From HPC Built for Mod/Sim to AI + Hybrid Workflows

HPC Was Built for Mod/Sim

Compute-Intensive. Predicable. Centered.

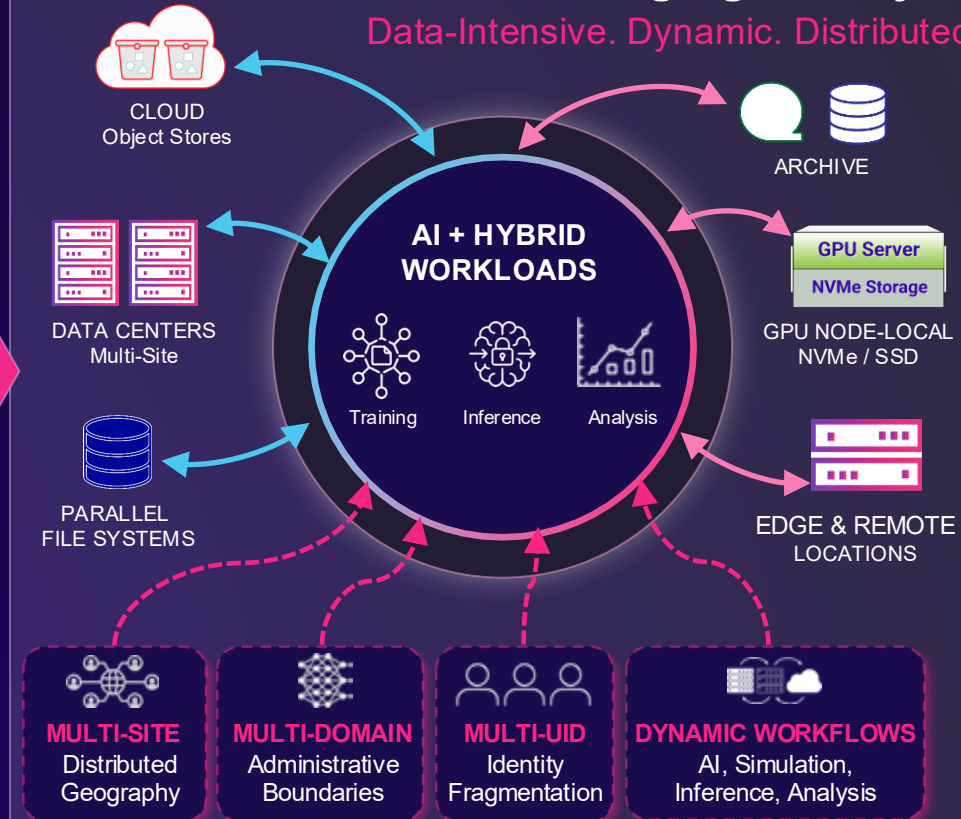


The Model That Worked

- ✓ Centralized storage
- ✓ Consistent identity
- ✓ Stable access patterns
- ✓ High-throughput shared file systems
- ✓ Built for long-running jobs

The Emerging Reality

Data-Intensive. Dynamic. Distributed.



What's Different Now

- ✗ Data is everywhere, not just in one place
- ✗ Identities don't always match
- ✗ Workloads are dynamic and diverse
- ✗ GPUs need data fast and local
- ✗ Moving or copying creates friction, cost, and risk



This is not just a Performance Problem.

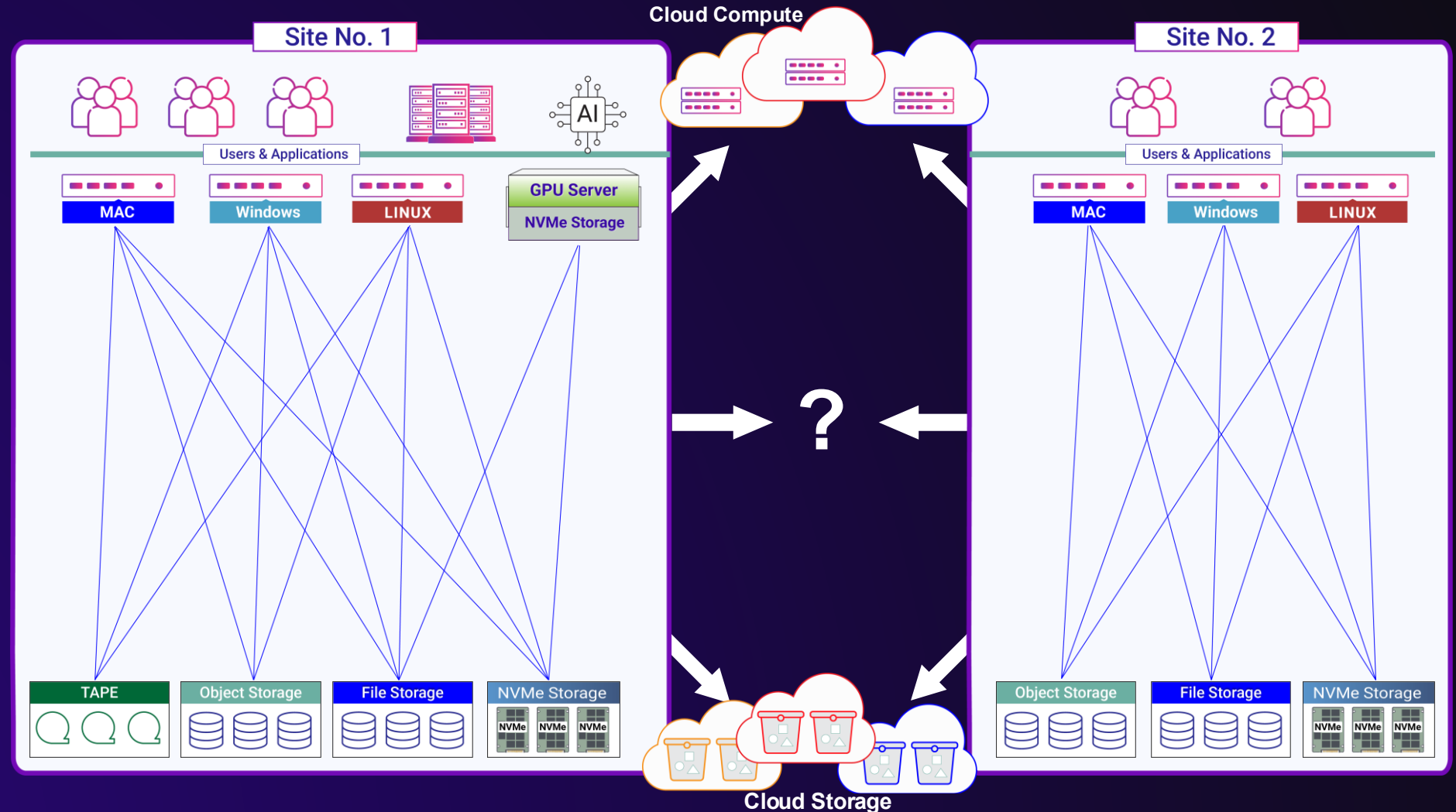
It Is a Data Orchestration Problem

The Problem: Effectively Utilizing Siloed Data

Data Access is Fragmented

Complex for Users

- No global view or access
- Data copies explode, and workflows are siloed



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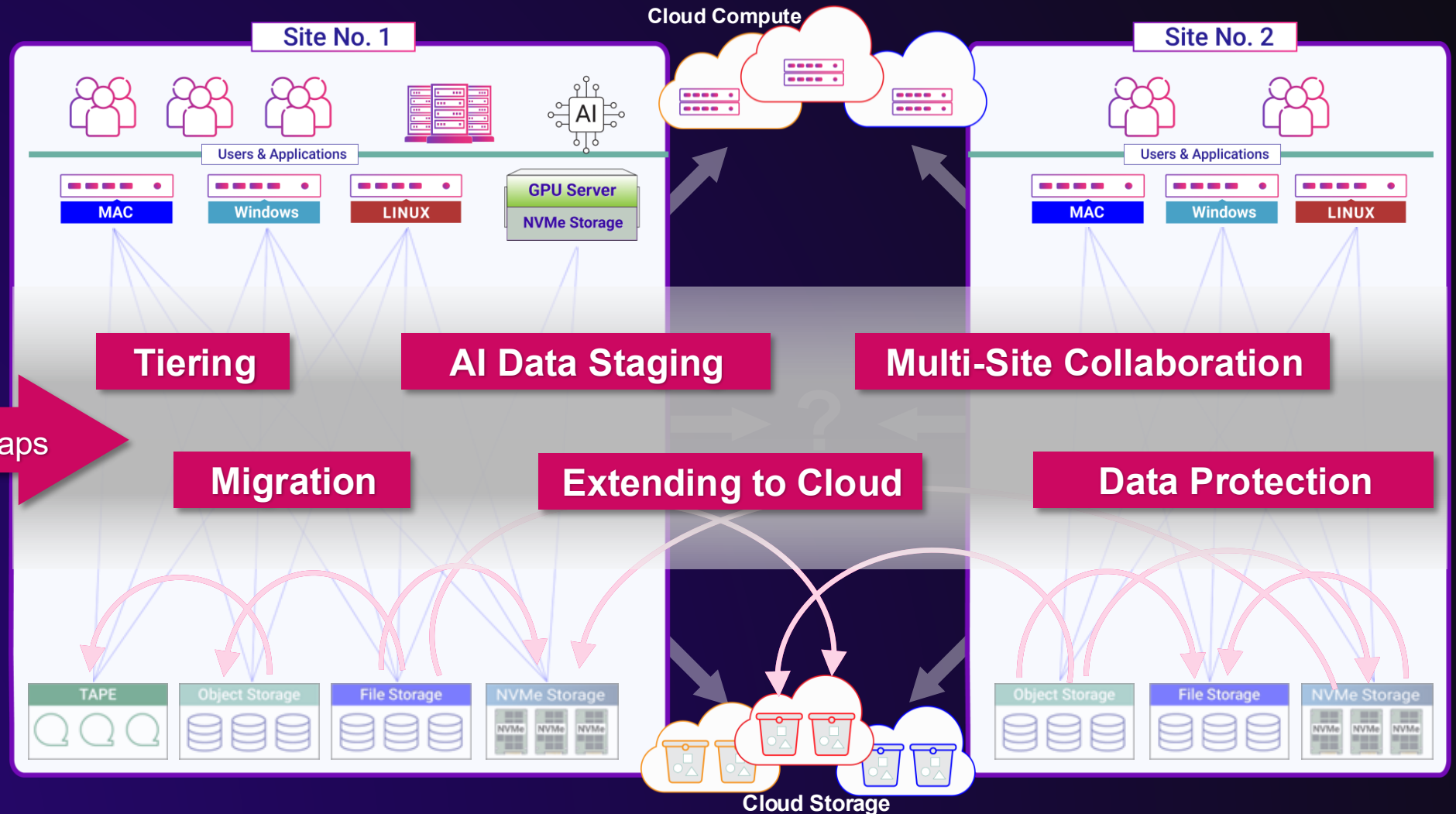
- No global view or access
- Data copies explode, and workflows are siloed

Complex to Manage

- IT services are fragmented
- Data Protection limited by system/location, not global

Slows Workflows

- High-performance is siloed
- Volume copies & migrations required



Point Solutions Used to Fill Gaps

The Solution: Bridge Silos and Automate Data Placement

Unified High-Performance Access

- No proprietary client software needed
- Standard SMB, NFS & S3

Cross-platform Data Services

- Global data control with metadata intelligence

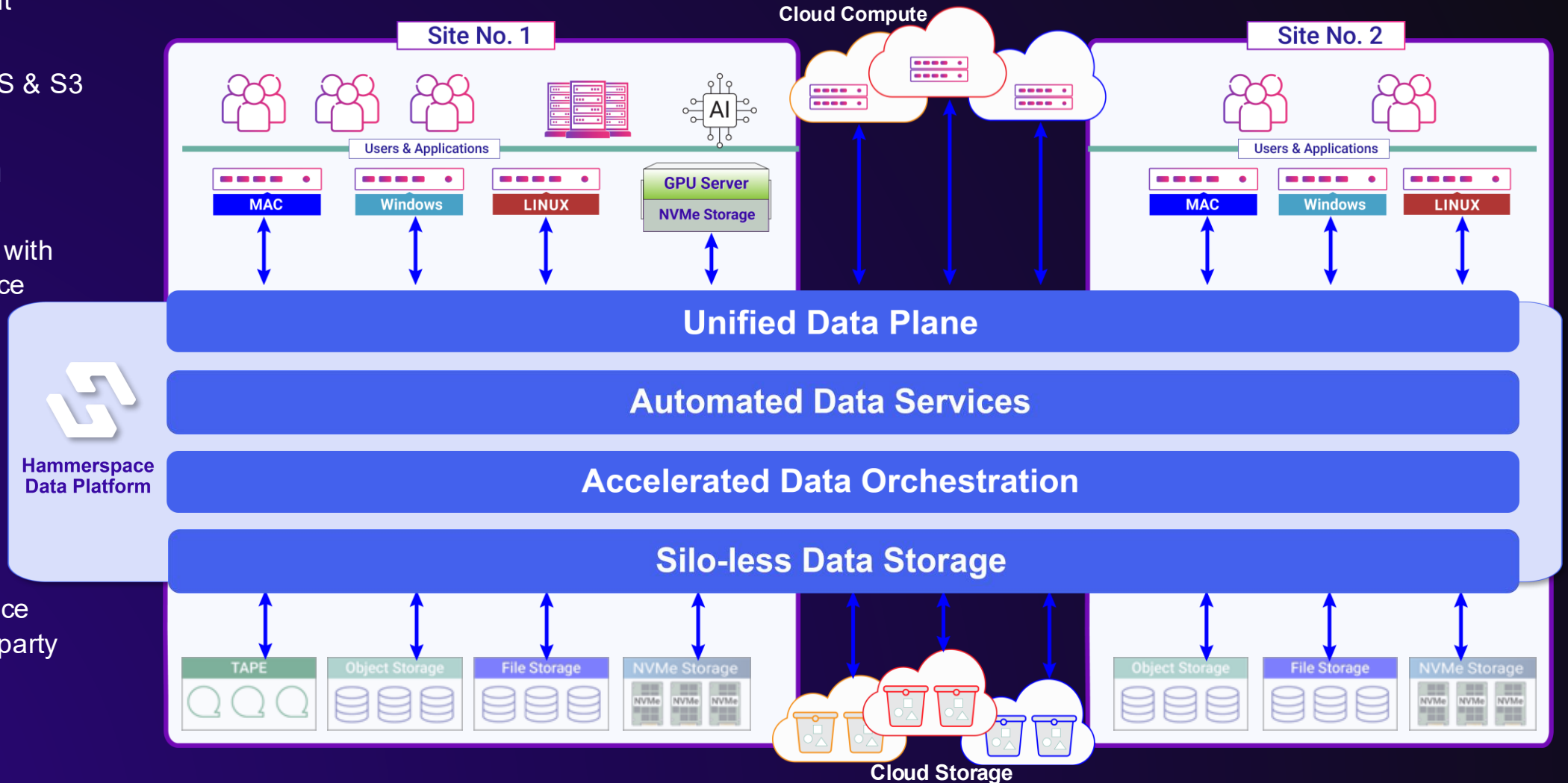
Accelerate Workflows

- High performance data movement

Any Storage

- Extreme performance Tier 0, or any third-party Storage

Non-Proprietary, Standards-based Access



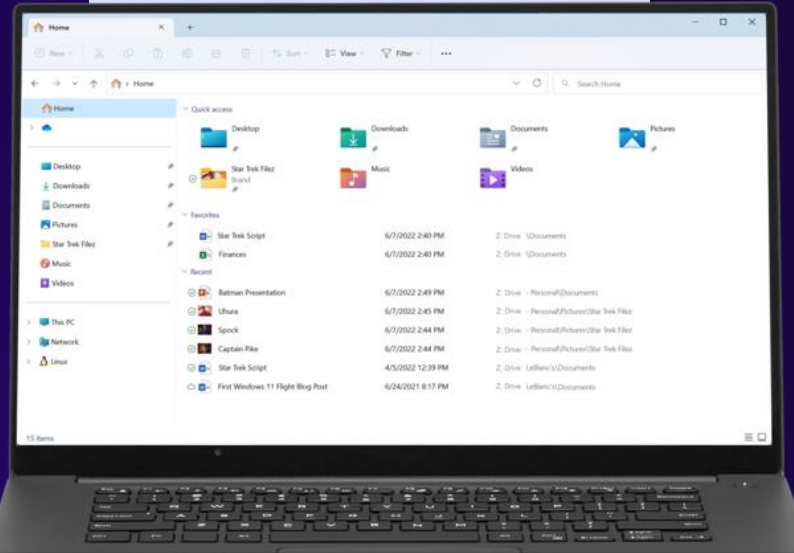
Experience Local Access to All Data -- Plus Global Control

Users simply access their files, as normal.

Admins control data and placement & protection without interrupting users

Users Have Seamless Access to All Data:

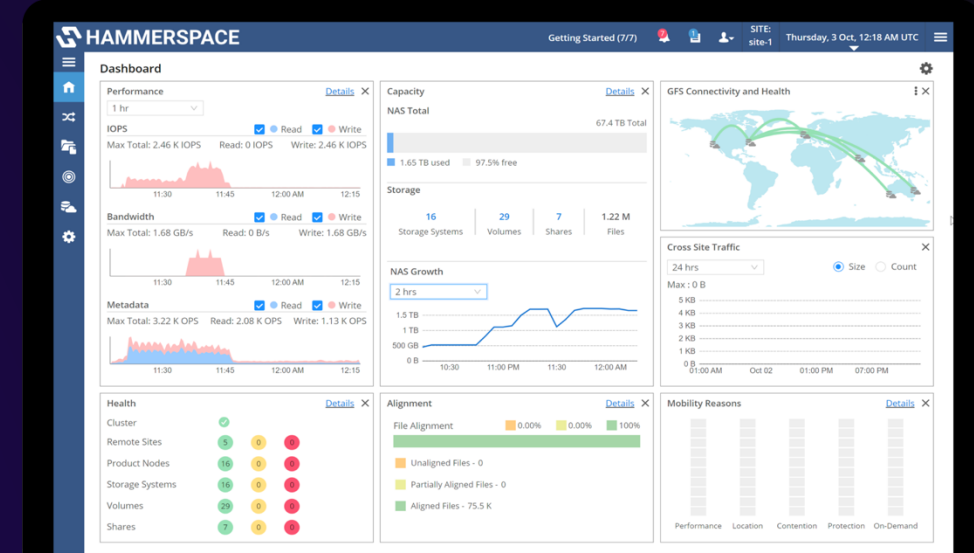
User View



Users see data across all silos via standard protocols they are accustomed to. No proprietary client software needed.

Admins Have Global Control of All Data Services:

Administrator View



Admins manage storage resources, data placement, protections and workflows centrally across the entire data estate.

No Proprietary Client Software Needed!!

For Enterprise AI Adoption - Silos is Only the First Problem

Equally Important is Reducing Complexity

Speed-Bumps to Launching AI Projects

- Multiple Complex Steps
- Added Risk → Governance
- Huge upfront investment before ROI is known
- Requires Different Skillset than traditional IT



A Turn-key, Real-Time AI Data Pipeline for Enterprise

Taming Data Chaos

- Builds on Hammerspace core capabilities.
- Helps unlock their unstructured data for AI
- Removes steps for data collection, cataloging, and processing from data scattered across the enterprise
- Helps everyday enterprises start their AI journey by solving the biggest challenge to every project – AI Data readiness
- It's an agentic platform for AI Adoption



HAMMERSPACE AI Data Platform

Use Data In Place

Orchestrated Data Movement

New Data Detection

Automated Transformation

Fast Data Access

Governance,
Sovereignty, and
Security

AI-Ready Data in Days, Not Months

The AI Data Platform for Accelerating Outcomes

Fast times to token are good, but time to VERY First token is essential

Traditional AI Solutions:

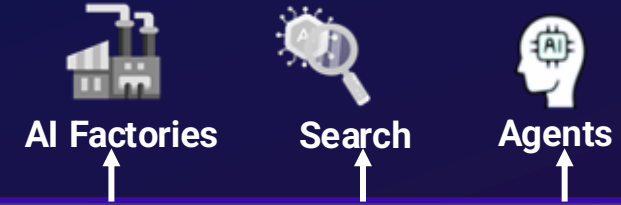


Hammerspace AIDP Solution:



Over 10x Reduction in time spent compared to traditional AI Storage Solutions

Simplifies Transforms Existing Siloed Data into Unified AI-Ready Intelligence



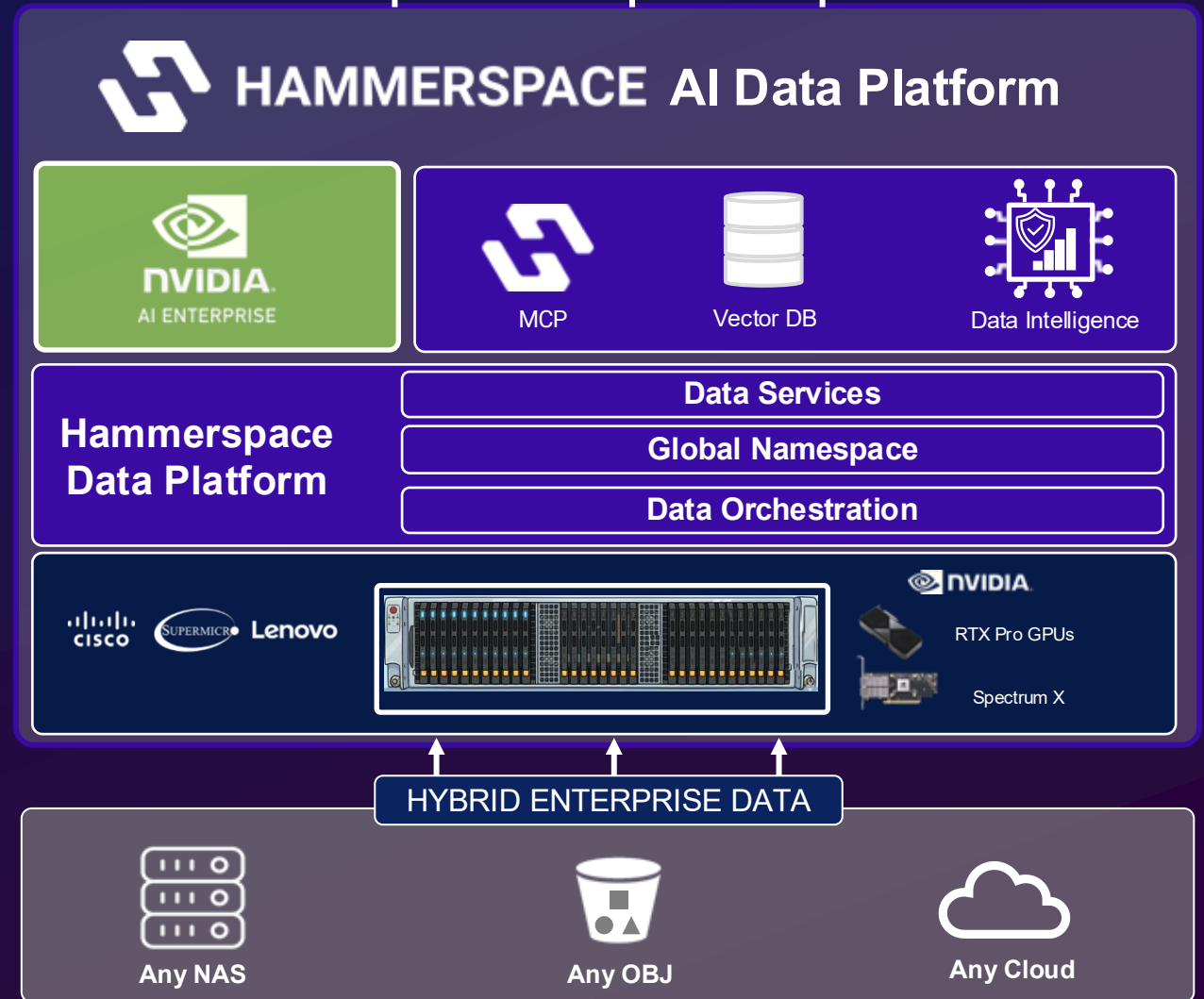
Adds Key AI-Specific Features:

- Hammerspace MCP Server
- Vector DB & Data Intelligence Software
- Includes NVIDIA AI Enterprise Software

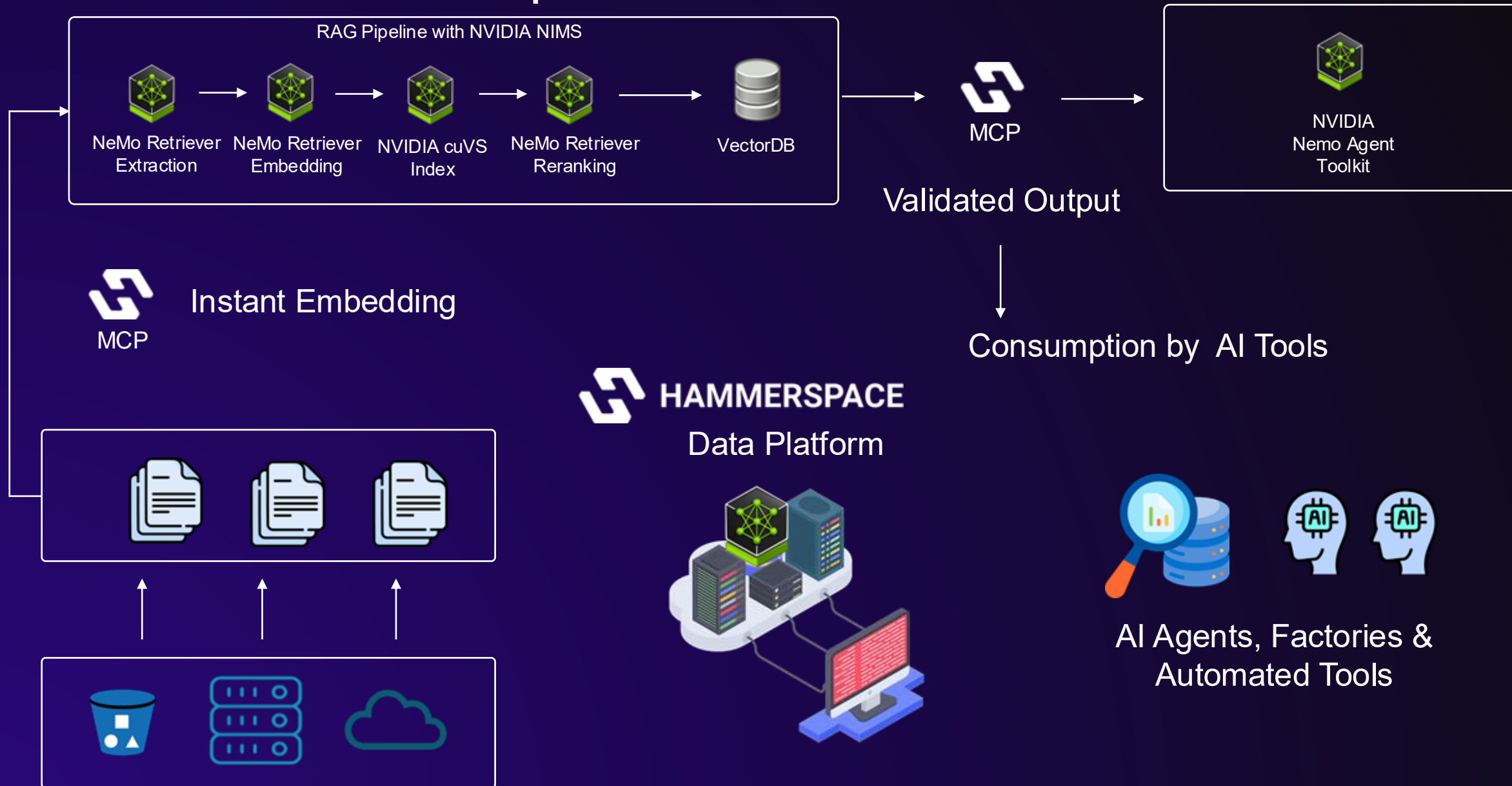
Built Upon Hammerspace Core Solution

Fully Integrated With Hardware:

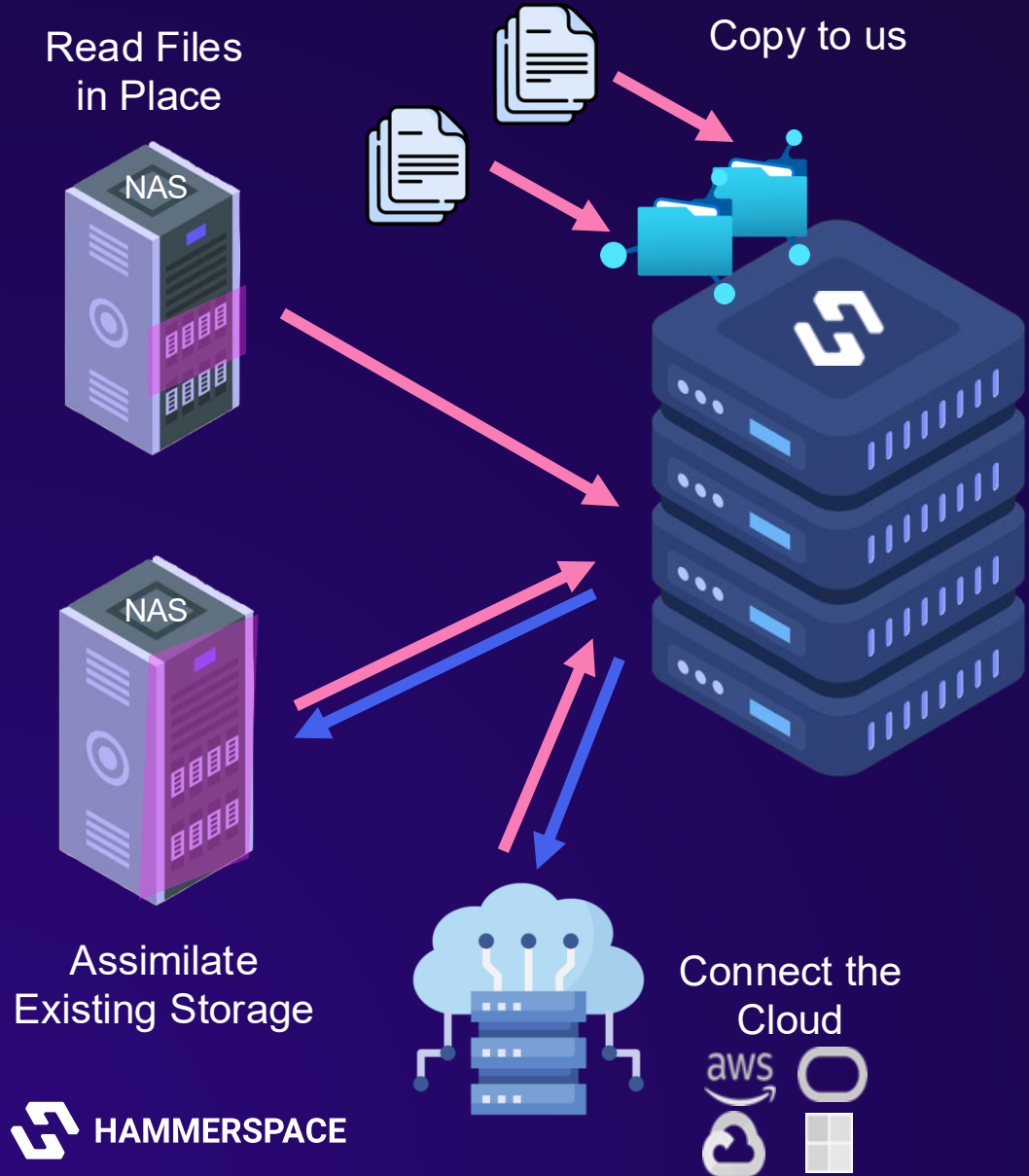
- Cisco, Supermicro, Lenovo
- Supports Any Third-Party Hardware



Hammerspace Data Platform with NVIDIA



AI Data Platform



nvidia AI ENTERPRISE

Real-time Automated AI Processing

High Performance VectorDB

MCP Server


secuvyai

Data Intelligence & Governance

The central section is enclosed in a rounded rectangle and lists key AI capabilities. At the top is the NVIDIA AI Enterprise logo. Below it is an icon of a green GPU stack with the text 'Real-time Automated AI Processing'. Next is an icon of a blue database cylinder with the text 'High Performance VectorDB'. Below that is an icon of a purple cloud with a white logo and the text 'MCP Server'. At the bottom is the Secuvyai logo with the text 'Data Intelligence & Governance'.

-
- Enterprise Tools
 - AI Factory
 - Agents
- The list on the right side of the slide features three icons: a magnifying glass over a database icon for 'Enterprise Tools', a factory icon for 'AI Factory', and a head with a brain icon for 'Agents'.

AIDP Plain Language Query Interface



System Status
● System health
System health

AI Readiness
● NIM, Milvus, NV-Ingest OK
NIM Nemo Embedding, Milvus, NV-Ingest

MCP Status
● Pod running, ● UI up
Pod running, UI

Vector DB
● 10 collections, 11.4k embeddings
Collections and embeddings

Hammerspace Status
● Anvil reachable
Anvil reachable, files in transit

AIDP Console
Intelligent testing powered by NVIDIA NIM

[Diagrams & Metrics](#) [File Discovery](#) [Debug](#) [Events](#) [Logs](#)

Describe your planning step:

e.g. 'Discover files in /mnt/hub, place on DSX, check alignment' or 'Secuvy BOM workflow: Product Launch Update'

[Run Agent](#) [Clear](#) [Engage Debug](#)

EXAMPLE PLANNING STEPS

- Discovery flow: dropped files → DSX
- Discovery flow: dropped files → DSX → alignment
- Secuvy BOM workflow: Product Launch Update (Secuvy-0001) → AIDP Cluster 1 → internal_prod vector DB
- Dataset test-0021 → AIDP Cluster 1 → internal_prod (tag collectionid=test-0021)

Rich Metadata Categorization

AI Data Plane

Hammerspace MCP • Connected 🟢

AI Data Plane Data BOM Policy Builder MCP Integration Activity Log

AI-governed inventory • MDM controlled • One dataset per data source

6
TOTAL ASSETS

2
CRITICAL RISK

5
LLM BLOCKED

1
COMPLIANT

1.11 TB
TOTAL SIZE

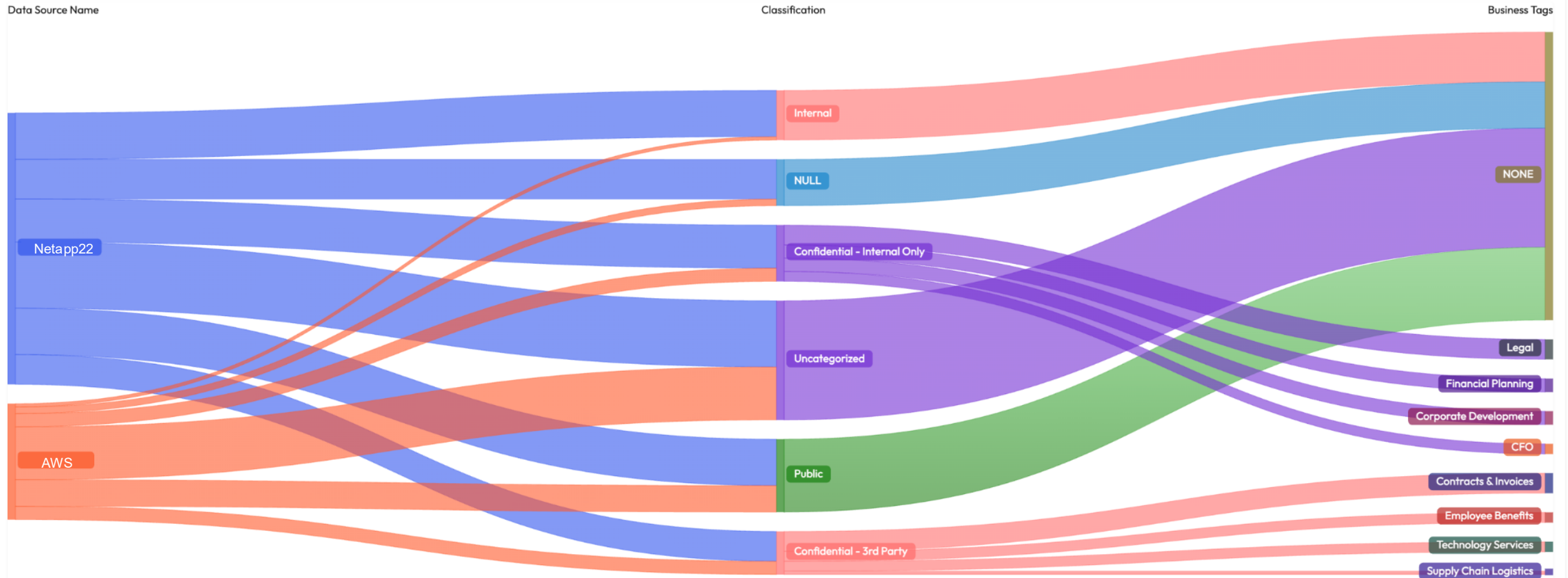
Select All 🔗

 Ingest via MCP
 Export BOM
Apply Policy

	ASSET NAME	CATEGORY	STORE	SENSITIVITY	LLM STATUS	RISK SCORE	GOVERNANCE
<input type="checkbox"/>	Customer Support Emails	Unstructured	S3	High	Blocked	<div style="width: 88%; height: 10px; background: linear-gradient(to right, red, gray);"></div> 88	• Needs Review
<input type="checkbox"/>	Clinical Trial Notes	Unstructured	NFS	Critical	Blocked	<div style="width: 95%; height: 10px; background: linear-gradient(to right, red, gray);"></div> 95	• Non-Compliant
<input type="checkbox"/>	Public Product Reviews	User Generated	S3	Medium	Allowed	<div style="width: 30%; height: 10px; background: linear-gradient(to right, green, gray);"></div> 30	• Compliant
<input type="checkbox"/>	Internal Source Code	Source Code	NFS	High	Blocked	<div style="width: 85%; height: 10px; background: linear-gradient(to right, red, gray);"></div> 85	• Non-Compliant
<input type="checkbox"/>	HR Employee Records	Structured	S3	Critical	Blocked	<div style="width: 97%; height: 10px; background: linear-gradient(to right, red, gray);"></div> 97	• Non-Compliant
<input type="checkbox"/>	Financial Reports	Financial	NFS	High	Blocked	<div style="width: 52%; height: 10px; background: linear-gradient(to right, blue, gray);"></div> 52	• Needs Review

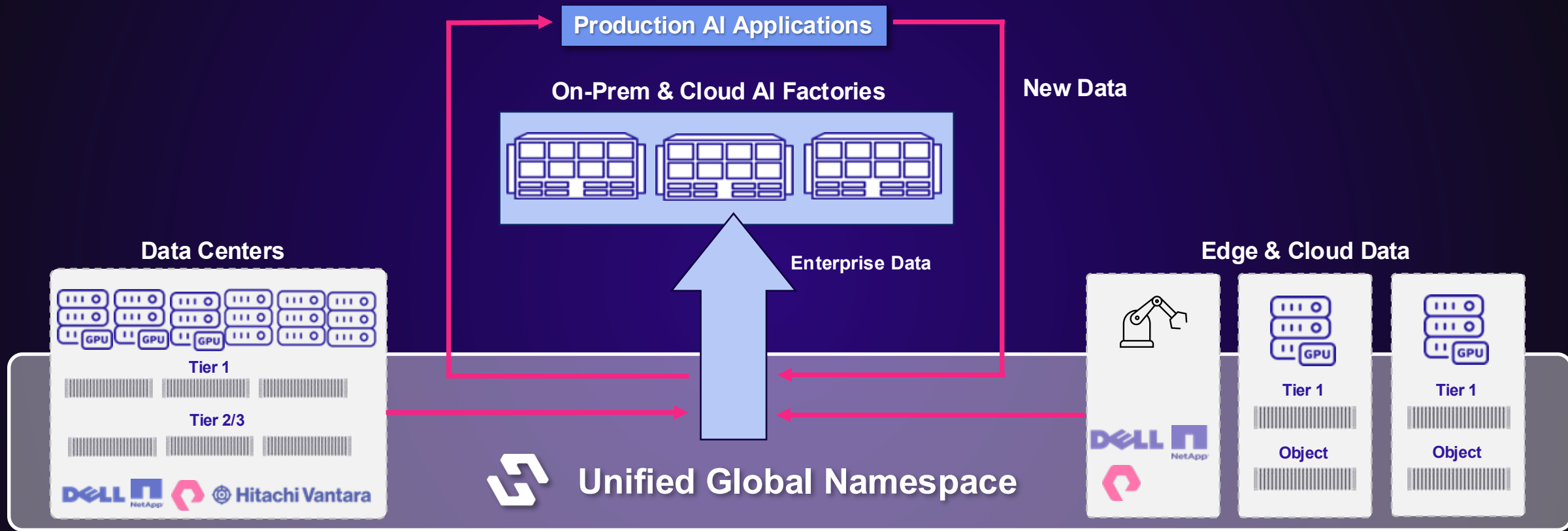
Rich Metadata Categorization

Files Summary Classification Details Business Tag Sub-Groups



Automate Workloads with Intelligent Data Mobility

Orchestrate Data Pipelines to Reduce Operational Complexity



Intelligent, Non-Disruptive
Data Movement

Move Data to the
Right Tier/Location
at the Right Time

Eliminate Data Gravity to
Power AI anywhere

Hammerspace is the Data Fuel of AI



US GOVERNMENT



Department of
DEFENSE



Department of
ENERGY



AT-SCALE AI OPERATORS

 **Meta**

zoom



NEOCLOUDS



US Government
NEOCLOUD

 **Cirrascale®**

Global File Access & Automated Data Orchestration

Non-Proprietary, Standards-based Access

REST API

pNFS with Flex Files

S3, NFS, SMB

MCP CSI



**Hammerspace
Data Platform**

Unified Data Plane

High-Performance Parallel Global File System – Cross-Platform Global Namespace

Automated Data Services

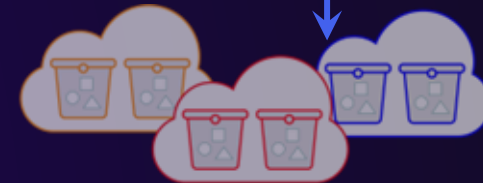
Service-Level Objectives for Data Placement, Workflows, Data Protection, Custom Metadata Services

Accelerated Data Orchestration

Non-Disruptive Data Movement for High-Performance Uses, Tiering, Replication, Cloud, Multisite, etc.

Silo-less Data Storage

Tier 0, pNFSv4.2 with Flex Files, Optimized Object Storage, Cloud Storage



Multi-Vendor, Multi-Site, Multi-Cloud Storage

Thank You!

www.HAMMERSPACE.com